



# Standards *Actions*



## Technical Standards Program Document Status

**01-30-2001**

### Activity Summary

In Conversion – 4

In Preparation – 35

Out for Comment – 18

Published this Month – 1



### FY 2001 5-year Reviews

Revisions in Progress – 2

Reaffirmations in Progress – 2

Supersedures in Progress – 6

Cancellations Pending – 11

Cancellations in Progress – 33

No Current Action – 16

## DOE Technical Standards Project Canceled

If you have any questions about this action, please contact the person listed below.

**The following DOE Technical Standards project was recently canceled:**

- *EM Facility Hazard Categorization*, Project Number SAFT-0029; EM Technical Standards Manager, John Serocki, 301-903-7999, [John.Serocki@em.doe.gov](mailto:John.Serocki@em.doe.gov), or Tom Wright, 301-903-3661, [Tom.Wright@em.doe.gov](mailto:Tom.Wright@em.doe.gov). The need for this document no longer exists.

## DOE Technical Standards Recently Sent for Coordination

The appropriate Technical Standards Managers (TSMs) will request specific reviewers to comment on these drafts. The full text of the documents is available on the TSP Web Site. If you wish to comment on this document, please notify your TSM.

**The following draft DOE Technical Standards were recently distributed for coordination:**

- *Beryllium Lymphocyte Proliferation Testing (BeLPT)*, Project Number SDMP-0029; Paul Wambach, U.S. Department of Energy, EH-6, 19901 Germantown Road, Germantown, Maryland 20874-1290; 301-903-7373; Fax 301-909-5072; [Paul.Wambach@eh.doe.gov](mailto:Paul.Wambach@eh.doe.gov). Comments are due March 19, 2001.
- *Radiological Safety Training for Plutonium Facilities*, Project Number TRNG-0016; Dr. Judith Foulke, U.S. Department of Energy, EH-52, 19901 Germantown Road, Germantown, Maryland 20874-1290; 301-903-5865; Fax 301-903-7773; [Judy.Foulke@eh.doe.gov](mailto:Judy.Foulke@eh.doe.gov). Comments are due March 12, 2001. This document will update DOE/EH-0425.
- *Radiological Control Training for Supervisors*, Project Number TRNG-0017; Peter O'Connell, U.S. Department of Energy, EH-52, 19901 Germantown Road, Germantown, Maryland 20874-1290; 301-903-5641; Fax 301-903-7773; [Peter.O'connell@eh.doe.gov](mailto:Peter.O'connell@eh.doe.gov). Comments are due March 30, 2001. This document will update DOE/EH-0423 and DOE/EH-0424, which were developed as part of DOE's development of standardized radiation protection training.

## DOE Technical Standard Recently Published

**The following DOE Technical Standard was recently published and posted on the TSP Web Site:**

- DOE-HDBK-1139/1-2000, *Chemical Management*, Volume 1 of 2, November 2000. Note: Volume 2 of this document will be published at a later date.



Visit the Technical Standards Program Web Site: <http://tis.eh.doe.gov/techstds/>

DOE employees and DOE contractors may obtain copies from the ES&H Technical Information Services, U.S. Department of Energy; 1-800-473-4375, Fax 301-903-9823.

Subcontractors and the general public may obtain copies from the U.S. Department of Commerce, Technology Administration, National Technical Information Service, Springfield, Virginia 22161; 703-605-6000, Fax 703-605-6900.

Copies of DOE Technical Standards (i.e., DOE Standards, Specifications, Handbooks, and Technical Standards Lists) are also available on the [TSP Web Site](#).

## Non-Government Standards

### American National Standards Institute

The American National Standards Institute (ANSI) publishes coordination activities of non-Government standards (NGS) biweekly in *ANSI Standards Action*. Recent electronic copies (no hardcopies are produced) are available on the ANSI Web site at [http://web.ansi.org/rooms/room\\_14/](http://web.ansi.org/rooms/room_14/). Electronic back copies are available to ANSI members only. For information on site membership, ask your local ANSI contact. For information on individual or group ANSI membership, contact Susan Bose at 212-642-4948 or [sbose@ansi.org](mailto:sbose@ansi.org).

Hardcopy versions of published non-Government standards listed in this section may be obtained from Global Engineering Documents, 15 Inverness Way East, Englewood, Colorado, 80112, 800-854-7179, Fax 303-397-2740, [global@ihs.com](mailto:global@ihs.com), <http://global.ihs.com>. Electronic delivery of selected documents is available through ANSI at <http://webstore.ansi.org>. Copies of the listed draft standards and the procedure for commenting on them may be obtained by contacting the standards developing organization.

The following listings are extracted from *ANSI Standards Action* and are representative of NGS development activities that may be relevant to DOE operations. Refer to *ANSI Standards Action* for a more extensive listing of changes and new publications, standards developing organizations, and additional information about submitting comments. Additional information on ANSI activities and available non-Government standards can be found on the ANSI Web site, <http://www.ansi.org>, or through the National Standards System Network, <http://www.nssn.org>.

**The following American National Standards are currently in coordination** (comment due dates follow each entry):

- ANS 58.21, *External Events PRA Methodology Standard* (new standard) – March 27, 2001.
- ASNT CP-189, *Nondestructive Testing – Qualification and Certification of Personnel* (revision of ANSI/ASNT CP-189-1995) – February 12, 2001.
- ASTM E2116, *Practice for Dosimetry for a Self-Contained Dry Source Irradiator* – March 27, 2001.
- IEEE 1-2000, *Recommended Practice – General Principles for Temperature Limits in the Rating of Electrical Equipment and for the Evaluation of Electrical Insulation* (revision of ANSI/IEEE 1-1986 (R1992)) – March 13, 2001.
- IEEE 446-1995 (R2000), *Recommended Practice for Emergency and Standby Power Systems for Industrial and Commercial Applications* (reaffirmation of ANSI/IEEE 446-1995) – March 13, 2001.
- IEEE 844-2000, *Recommended Practice for Electrical Impedance, Induction, and Skin Effect Heating of Pipelines and Vessels* (revision of ANSI/IEEE 844-1991) – March 13, 2001.
- ISA 12.12.01, *Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations* (new standard) – February 26, 2001.
- NFPA 25, *Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems* (revision of ANSI/NFPA 25-1998) – March 30, 2001.
- NFPA 51, *Standard for the Design and Installation of Oxygen-Fuel Gas Systems for Welding, Cutting, and Allied Processes* (revision of ANSI/NFPA 51-1997) – March 30, 2001.
- NFPA 110, *Standard for Emergency and Standby Power Systems* (revision of ANSI/NFPA 110-1998) – March 30, 2001.
- NFPA 270, *Standard Test Method for Measurement of Smoke Obscuration Using a Conical Radiant Source in a Single Closed Chamber* (revision of ANSI/NFPA 270-1988) – March 30, 2001.
- NFPA 471, *Recommended Practice for Responding to Hazardous Materials Incidents* (revision of ANSI/NFPA 471-1997) – March 30, 2001.
- NFPA 472, *Standard for Professional Competence of Responders to Hazardous Materials Incidents* (revision of ANSI/NFPA 472-1997) – March 30, 2001.
- NFPA 473, *Standard for Competencies for EMS Personnel Responding to Hazardous Materials Incidents* (revision of ANSI/NFPA 473-1997) – March 30, 2001.

- NFPA 1404, *Standard for a Fire Department Self-Contained Breathing Apparatus Program* (revision of ANSI/NFPA 1404-1996) – March 30, 2001.
- NFPA 1451, *Standard for a Fire Service Vehicle Operations Training Program* (revision of ANSI/NFPA 1451-1997) – March 30, 2001.
- NFPA 1500, *Standard on Fire Department Occupational Safety and Health Program* (revision of ANSI/NFPA 1500-1997) – March 30, 2001.
- NFPA 1561, *Standard on Emergency Services Incident Management System* (revision of ANSI/NFPA 1561-2000) – March 30, 2001.
- Z365, *Management of Work-Related Musculoskeletal Disorders* (new standard) – March 13, 2001.

**The following American National Standards have been approved for publication** (Publication is to take place within six months following the date shown. Publication status and ordering information may be obtained from ANSI's Customer Service at 212-642-4900.):

- ANSI/ASME QME-1-2000, *Qualification of Active Mechanical Equipment for Nuclear Power Plants* (revision, redesignation and consolidation of ANSI/ASME QME-1-1994, ANSI/ASME QME-1a-1998, ANSI/ASME QME-1b-1997) – December 18, 2000.
- ANSI/ASME RTP-1-2000, *Reinforced Thermoset Plastic Corrosion Resistant Equipment* (revision of ANSI/ASME RTP-1-1989) – December 20, 2000.
- ANSI/ASTM A27-00, *Specification for Steel Castings, Carbon, for General Application* (reaffirmation of ANSI/ASTM A27-95) – December 10, 2000.
- ANSI/ASTM A181/A181M-00, *Specification for Carbon Steel Forgings, for General Purpose Piping* (revision of ANSI/ASTM A181-96) – December 10, 2000.
- ANSI/ASTM A350/A350M-00, *Specification for Carbon and Low-Alloy Steel Forgings, Requiring Notch Toughness Testing for Piping Components* (revision of ANSI/ASTM A350/A350M-00) – December 10, 2000.
- ANSI/ASTM A351/A351M, *Specification for Castings, Austenitic, Austenitic-Ferritic Duplex, for Pressure-Containing Parts* (revision of ANSI/ASTM A351/A351M-99) – December 10, 2000.
- ANSI/ASTM A493-95 (R00), *Specification for Stainless Steel Wire and Wire Rods for Cold Heading and Cold Forging* (reaffirmation of ANSI/ASTM A493-95) – December 10, 2000.
- ANSI/ASTM A727/A727M-00, *Specification for Carbon Steel Forgings for Piping Components with Inherent Notch Toughness* (revision of ANSI/ASTM A727/A727M-97) – December 10, 2000.

- ANSI/ASTM A744/A744M-00, *Specification for Castings, Iron-Chromium-Nickel, Corrosion Resistant, for Severe Service* (revision of ANSI/ASTM A744/A744M-98A) – December 10, 2000.
- ANSI/ASTM A781/A781M-00, *Specification for Castings, Steel and Alloy, Common Requirements, for General Industrial Use* (revision of ANSI/ASTM A781/A781M-99A) – December 10, 2000.
- ANSI/ASTM A795-00, *Specification for Black and Hot-Dipped Zinc-Coated (Galvanized) Welded and Seamless Steel Pipe for Fire Protection Use* (revision of ANSI/ASTM A795-97) – December 10, 2000.
- ANSI/ASTM A990-00, *Specification for Castings, Iron-Nickel-Chromium and Nickel Alloys, Specially Controlled for Pressure Retaining Parts for Corrosive Service* (revision of ANSI/ASTM A990-98) – December 10, 2000.
- ANSI/ASTM B894-99, *Specification for Zinc-Copper-Aluminum Alloy Die Castings* (new standard) – December 10, 2000.
- ANSI/ASTM D5425-00, *Guide for Development of Fire Hazard Assessment Standards of Electrotechnical Products* (revision of ANSI/ASTM D5425-96) – September 10, 2000.
- ANSI/ASTM E974-01, *Guide for Specifying Thermal Performance of Geothermal Power Systems* (revision of ANSI/ASTM E974-97) – January 2, 2001.
- ANSI/ASTM E1462-01, *Test Methods for Insulation Integrity and Ground Path Continuity of Photovoltaic Modules* (revision of ANSI/ASTM E1462-95) – January 2, 2001.
- ANSI/ASTM E1623-00, *Test Method for Determination of Fire and Thermal Parameters of Materials, Products, and Systems Using an Intermediate Scale Calorimeter (ICAL)* (revision of ANSI/ASTM E1623-94) – October 10, 2000.
- ANSI/ASTM E2052-99, *Guide for Identification and Management of Lead Hazards in Facilities* (new standard) – December 10, 1999.
- ANSI/ASTM E2067-00, *Practice for Full-Scale Oxygen Consumption Calorimetry Fire Tests* (revision of ANSI/ASTM E2067-00) – October 10, 2000.
- ANSI/EIA 765-A-2000, *International and National Quality Standards Index* (new standard) – December 20, 2000.
- ANSI/EIA 832-2000, *Process Improvement Guidelines* (new standard) – December 20, 2000.

**The following international standards are currently in coordination** (comment due dates follow each entry):

- EN ISO 9241-1:1997/prA1, *Ergonomic requirements for office work with visual display terminals (VDTs) – Part 1: General introduction – Amendment 1* (ISO 9241-1:1997/FDAM 1:2000) – Sent for formal vote.
- prEN 149 REVIEW, *Respiratory protective devices – Filtering half masks to protect against particles – Requirements, testing, marking* – Sent for formal vote.
- prEN 1093-11, *Safety of machinery – Evaluation of the emission of airborne hazardous substances – Part 11: Decontamination index* – Sent for formal vote.
- prEN 13274-5, *Respiratory protective devices – Methods of test – Part 5: Climatic conditions* – Sent for formal vote.
- prEN 14070, *Safety of machine tools – Transfer and special-purpose machines* – April 16, 2001.
- prEN 50362, *Method of test for resistance to fire of larger unprotected power and control cables for use in emergency circuits* – April 11, 2001.
- prEN ISO 2592 REVIEW, *Determination of flash and fire points – Cleveland open cup method* (ISO 2592:2000) – May 14, 2001.
- prEN ISO 4126-6, *Safety devices for protection against excessive pressure – Part 6: Application, selection and installation of bursting disc safety devices* (ISO/DIS 4126-6:2000) – April 7, 2001.
- prEN ISO 13982-1, *Protective clothing for use against solid particulate chemicals – Part 1: Performance requirements for chemical protective clothing providing protection to the full body against solid particulate chemicals (type 5 clothing)* (ISO/DIS 13982-1:2000) – March 30, 2001.
- prEN ISO 15011-1, *Health and safety in welding and allied processes – Laboratory method for sampling fume and gases generated by arc welding – Part 1: Determination of emission rate and sampling for analysis of particulate fume* (ISO/FDIS 15011-1: 2000) – Sent for formal vote.
- prHD 245.3 S3, *Letter symbols to be used in electrical technology – Part 3L Logarithmic quantities and units* (IEC 60027-3:1989 + A1:2000) – Sent for formal vote.

**The following newly published international standards are available:**

- ISO 3497:2000, *Metallic coatings – Measurement of coating thickness – X-ray spectrometric methods*.
- ISO 3543:2000, *Metallic and non-metallic coatings – Measurement of thickness – Beta backscatter method*.
- ISO 10725:2000, *Acceptance sampling plans and procedures for the inspection of bulk materials*.

- ISO 11064-1:2000, *Ergonomic design of control centres – Part 1: Principles for the design of control centres*.
- ISO 11064-2:2000, *Ergonomic design of control centres – Part 2: Principles for the arrangement of control suites*.
- ISO 11226:2000, *Ergonomics – Evaluation of static working postures*.
- ISO 14706:2000, *Surface chemical analysis – Determination of surface elemental contamination on silicon wafers by total-reflection X-ray fluorescence (TXRF) spectroscopy*.
- ISO 15324:2000, *Corrosion of metals and alloys – Evaluation of stress corrosion cracking by the drop evaporation test*.
- ISO 15730:2000, *Metallic and other inorganic coatings – Electropolishing as a means of smoothing and passivating stainless steel*.
- ISO 16590:2000, *Water quality – Determination of mercury – Methods involving enrichment by amalgamation*.

**American National Standards Projects Initiated**

The following is a list of proposed new American National Standards or revisions to existing American National Standards submitted to ANSI by accredited standards developers. DOE employees or contractors interested in participating in these activities should contact the appropriate standards developing organization. DOE-TSL-4 lists the DOE representatives on NGS committees. If no DOE representative is listed, contact the TSPO for information on participating in NGS activities.

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- IEEE 344, *Seismic Qualification of Class 1E Equipment for Nuclear Power Generating Stations* (revision of ANSI/IEEE 344-1987 (R1993)).
- IEEE 515, *Testing, Design, Installation and Maintenance of Electrical Resistance Heat Tracing for Industrial Applications* (revision of ANSI/IEEE 515-1997).

**NSF International**

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**Contact:** Deborah Scott, [dscott@nsf.org](mailto:dscott@nsf.org)

- NSF/ISO 14020, *Environmental Labels and Declarations – General Principles* (new standard).
- NSF/ISO 14021, *Environmental Labels and Declarations – Self-Declared Environmental Claims* (Type II Environmental Labelling) (new standard).
- NSF/ISO 14024, *Environmental Labels and Declarations – Type I Environmental Labelling – Principles and Procedures* (new standard).

### American Society for Testing and Materials

Standards activities of the American Society for Testing and Materials (ASTM) are published monthly in *ASTM Standardization News*. Orders for subscriptions or single copies of *ASTM Standardization News* may be submitted to ASTM, Subscription Dept.-SN, 100 Barr Harbor Drive, West Conshohocken, Pennsylvania 19428-2959. For information regarding ASTM membership, contact the Membership Services Department at 610-832-9691 (Fax 610-832-9667). ASTM publications may be ordered from the ASTM Customer Services Department at 610-832-9585 (Fax 610-832-9555). Comments on listed draft standards may be submitted by contacting the ASTM Standards Coordination Department at the above address. Questions may be addressed to the Technical Committee Operations Division at 610-832-9672 (Fax 610-832-9666). Additional information on ASTM activities is available on the ASTM Web site (<http://www.astm.org>). The following listings are extracted from *ASTM Standardization News* and are representative of NGS development activities that may be relevant to DOE operations.

**The following ASTM standards are currently in coordination** (the due date for all items is February 10, 2001):

- D 4448-85a (1992), *Guide for Sampling Groundwater Monitoring Wells* (revised standard).
- D 4547-98, *Practice for Sampling Waste and Soils for Volatile Organics* (revised standard).
- E 275-93, *Practice for Describing and Measuring Performance of Ultraviolet, Visible, and Near Infrared Spectrophotometers* (revised standard).
- E 334-96, *Practice for General Techniques of Infrared Microanalysis* (revised standard).
- E 578-83(1998), *Test Method for Linearity of Fluorescence Measuring Systems* (revised standard).
- E 827-95, *Practice for Elemental Identification by Auger Electron Spectroscopy* (revised standard).
- New Standard, *Guide for Qualification of Optical Instruments for Molecular Spectroscopy* (Ref. Z8016Z).

- New Standard, *Practice for Sampling Liquids Using Bailers* (Ref. Z8187Z).
- New Standard, *Practice for Sampling Liquids in Open Tanks Ponds and Impoundments with Grab Samplers* (Ref. Z8238Z).
- New Standard, *Practice for Collection and Handling of Soils Obtained in Core Barrel Samplers for Environmental Investigations* (Ref. Z8476Z).
- New Standard, *Practice for Field Collection of Organic Compounds from Surfaces Using Wipe Sampling* (Ref. Z8566Z).

**The following newly published standards are available from ASTM:**

- D 4169e1, *Practice for Performance Testing of Shipping Containers and Systems* (editorial change).
- D 5728-00, *Practices for Securement of Cargo in Intermodal and Unimodal Surface Transport* (revised standard).
- E 2067-00a, *Practice for Full-Scale Oxygen Consumption Calorimetry Fire Tests* (revised standard).
- F 1192-00 (includes change to title), *Guide for the Measurement of Single Event Phenomena (SEP) Induced by Heavy Ion Irradiation of Semiconductor Devices* (revised standard).

### Comments, Questions, and Addresses

**Comments:** If you have any questions or comments, please contact Rick Serbu, EH-53, Manager, DOE Technical Standards Program Office (TSPO), 301-903-2856, Fax 301-903-6172, [Richard.Serbu@eh.doe.gov](mailto:Richard.Serbu@eh.doe.gov).

**Addresses:** *Standards Actions* and *The Standards Forum* are now being published electronically and will be available only via your access to the TSP Web Site (<http://tis.eh.doe.gov/techstds/>). However, we would like to maintain both our e-mail and surface mail distribution lists so that we can send you special notices concerning technical standards and the DOE Technical Standards Program. We are requesting that those of you who are interested in receiving special notices please contact Amy Bush, ORNL, 865-576-2395, Fax 865-574-0382, [bushar@ornl.gov](mailto:bushar@ornl.gov), and give her your updated e-mail and surface mail addresses.

**Technical Standards Activities:** The TSPO would like to be kept informed of the status of technical standards that are being prepared or coordinated for DOE. Please provide this information to the TSPO at 865-576-2395, [bushar@ornl.gov](mailto:bushar@ornl.gov).